OIB - P-3 Orion 04/10/17 Science Report

Aircraft:
P-3 Orion (See full schedule)
Date:
Monday, April 10, 2017
Mission:
OIB
Mission Location:
North Central Gap 03
Mission Summary:

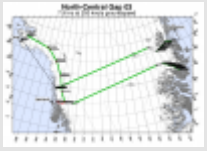
Mission: North Central Gap 03 (high priority, last flown 2013)

This mission, along with the North Central Gap 02 and 03 missions, are primarily designed to fill a gap in altimetry and radar coverage of the north-central portion of the Greenland Ice Sheet. In this flight, we also re- occupy centerlines of the Qeqertarsuap and Upernavik (south), glaciers, we fly centerlines of the Drachmann and Wordie glaciers, and we refly portions of the northwest coast-parallel grid flown from 2010-2012.

Weather across central Greenland was very favorable today. No clouds were encountered below our flight level and nearly all of the day was cloud-free on the ice sheet. All four outlet glacier center flowlines were flown, with only minor turbulence encountered. We also flew one additional center flowline on the west coast (Upernavik Central), instead of turning around and repeating Upernavik South. All instruments performed well. A minor issue was detected for the primary DMS camera so we switched to the backup camera half-way through the flight. ATM reports 100% data collection. The JPL crew collected a lot of 360º footage, and we also collected 360º footage from a camera that was mounted at the bottom of the drop-sonde tube.

Images:

Map of today?s mission.



Map of today?s mission.

Read more

Possibly capsized iceberg discharged from Upernavik South

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An iceberg-choked periglacial lake along the south flank of Drachmann

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View through a P-3 window of a small grounded portion of the terminus of

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Jefferson Beck (NASA) inspecting the aft-mounted 360º Sphericam after

Read more

Submitted by:
Joseph MacGregor on 04/19/17
Related Flight Report:

P-3 Orion 04/10/17

Flight Number:
Science Flight #19- North Central Gap 3
Payload Configuration:
OIB Arctic
Nav Data Collected:
No
Total Flight Time:
7.8 hours
Submitted by:
Kelly Griffin on 04/10/17
Flight Segments:

From:	BGTL	**To:**	BGTL
Start:	04/10/17 11:00 Z	**Finish:**	04/10/17 18:45 Z
Flight Time:	7.8 hours		
Log Number:	17P006	**PI:**	Nathan Kurtz
Funding Source:	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
Purpose of Flight:	Science		

Flight Hour Summary:

	17P006
Flight Hours Approved in SOFRS	333.6
Total Used	307.1
Total Remaining	26.5

17P006 Flight Reports					
Date	**Flt #**	**Purpose of Flight**	**Duration**	**Running Total**	**Hours Remaining**
02/24/17	Airworthiness Test Flight	Check	1	1	332.6
02/26/17	Project Test Flight #1	Check	4.9	5.9	327.7
02/27/17	Project Test Flight #2	Check	3	8.9	324.7
03/07/17	Transit Flight	Transit	8.2	17.1	316.5
03/09/17	Science Flight #1 - North Pole Transect	Science	8	25.1	308.5
03/10/17	Science Flight #2 - Laxon Line	Science	8.5	33.6	300
03/11/17 - 03/12/17	Science Flight #3 - Chukchi West Line	Science	8	41.6	292
03/12/17 - 03/13/17	Science Flight #4 - North Beaufort Loop Line	Science	8.1	49.7	283.9
03/14/17 - 03/15/17	Science Flight #5 - East Beaufort Loop Line	Science	8	57.7	275.9
03/20/17	Science Flight #6 - Sea Ice South Basin Transect (to Thule)	Science	8.1	65.8	267.8
03/22/17	Science Flight #7 - North Flux 02	Science	7.9	73.7	259.9
03/23/17	Science Flight #8 - Zig Zag West Line	Science	7.9	81.6	252
03/24/17	Science Flight #9 - CryoVEx Line	Science	5.8	87.4	246.2
03/27/17	Science Flight #10 - Northwest Coastal A Line	Science	7.4	94.8	238.8
03/28/17	Science Flight #11 - North Central Cap 01 Line	Science	7.6	102.4	231.2
03/29/17	Science Flight #12 - Ellesemere Island 01 Line	Science	7.6	110	223.6
03/30/17	Science Flight #13 - Ellesemere South Line	Science	7.9	117.9	215.7
03/31/17	Science Flight #14- Alexander-Petermann Line	Science	6.5	124.4	209.2
04/03/17	Science Flight #15- Zachariae 79N Fram Straight and BGTL ENSB Transit	Science	7.4	131.8	201.8
04/05/17	Science Flight #16 - Svalbard North Line (High Priority)	Science	7	138.8	194.8
04/06/17	Science Flight #17- Svalbard South Mission (High Priority)	Science	8.5	147.3	186.3
04/07/17	Science Flight #18- Combined Zig Zag East Mission and Transit ENSB to BGTL	Science	8.3	155.6	178
04/10/17	Science Flight #19- North Central Gap 3	Science	7.8	163.4	170.2
04/11/17	Science Flight #20- CryoVex 2 (High Priority)	Science	7.8	171.2	162.4
04/12/17	Science Flight #21-Northwest Coastal C	Science	7.2	178.4	155.2
04/13/17	Science Flight #22-North Glaciers 02 Prime (High Priority)	Science	8.2	186.6	147
04/14/17	Science Flight #23-IceSat-2 North/CryoSat-2 SARIn	Science	7	193.6	140
04/17/17	Science Flight #24-Humboldt 01(High Priority)	Science	7.8	201.4	132.2
04/19/17	Science Flight #25-Sea Ice - South Canada Basin (MediumPriority)	Science	7.8	209.2	124.4
04/20/17	Transit Flight to Kangerlussuaq	Transit	3	212.2	121.4

04/21/17	Science Flight #26-Southeast Coastal	Science	8	220.2	113.4
04/22/17	Science Flight #27-Helheim-Kangerd	Science	7.8	228	105.6
04/24/17	Science Flight #28-Geikie 01 (High Priority)	Science	8	236	97.6
04/26/17	Science Flight #29-Devon-Bylot (Medium Priority)	Science	7.9	243.9	89.7
04/28/17	Science Flight #30-Penny 01 (Medium Priority)	Science	6	249.9	83.7
04/29/17	Science Flight #31-Thomas - Jakobshavn 01	Science	8.4	258.3	75.3
05/01/17	Science Flight #32-Thomas - Jakobshavn-Eqip-Store	Science	8.4	266.7	66.9
05/02/17	Science Flight #33-Thomas - ICESat-2 Central	Science	7.9	274.6	59
05/03/17	Science Flight #34-Thomas - Southwest Coastal A	Science	8.3	282.9	50.7
05/05/17	Science Flight #35-Helheim-Kangerdlugssuaq Gap B (High Priority)	Science	8.2	291.1	42.5
05/06/17	Science Flight #36-Helheim-K-EGIG-Summit	Science	8	299.1	34.5
05/08/17	Science Flight #37-Southeast Glaciers 01 (High Priority)	Science	8	307.1	26.5

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.